

ELIX™ ABS HH P2MC

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

High heat resistance ABS plating grade

Benefits:

Enhanced heat resistance

Better dimensional under heat

Excellent balance of heat resistance, impact strength and flowability

Chemical Composition:

Acrylonitrile-butadiene-styrene (ABS) copolymer modified with poly(styrene-co-maleimide) (SMI).

General Information			
Features	High Heat Resistance		
Appearance	White		
	Yellow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	22.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.60 to 0.70	%	
Flow	0.60 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	95.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2210	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	43.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	27	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2270	MPa	ISO 178
Flexural Stress ³ (23°C)	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	12	kJ/m ²	
23°C	21	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	104	°C	ISO 75-2/B
1.8 MPa, Unannealed	100	°C	ISO 75-2/A

Vicat Softening Temperature	103	°C	ISO 306/B50
CLTE - Flow (23 to 55°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (2.00 mm)	< 55	mm/min	ISO 3795
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	240	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	ISO 294
NOTE			
1.	60x60x2		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	US - FMVSS		

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